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Application No: 09/592,907
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Claims 1-7 (Canceled).

8. (Currently Amended) The assembly according to claim 7 21, wherein the pin displacement calibration feature further includes a second locator connecting the resilient element with respect to the pin.

9. (Currently Amended) The assembly according to claim 7 21, wherein the resilient element includes a coil spring.

Claim 10 (Canceled).

11. (Previously Presented) The assembly according to claim 21, wherein the overmolded cap further includes a locking feature adapted for releasable retaining an electrical connector with respect to the connection body formation.

12. (Previously Presented) The assembly according to claim 21, wherein the overmolded cap further includes a snap fastening feature adapted for securing the overmolded cap to a mount.

13. (Original) The assembly according to claim 12, wherein the snap fastening feature is adapted for enabling the connection body formation to be reoriented with respect to the mount.

14. (Currently Amended) The assembly according to claim 7 21, further comprising:
at least one bearing unit guiding displacement of the pin with respect to the cap;
a stator at least partially encapsulated by the overmolded cap and magnetically connected to a magnetic field created by the electric current flowing through the wire; and
an armature portion of the pin responsive to the magnetic field.

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15. (Currently Amended) The assembly according to claim 14, wherein the resilient element includes a coil spring; and the pin displacement calibration feature further includes a second locator connecting the coil spring with respect to the pin, ~~and the first locator threadably engages the overmolded cap.~~

16. (Previously Presented) The assembly according to claim 15, wherein the overmolded cap further includes a locking feature adapted for releasably retaining an electrical connector with respect to the connection body formation, and also further includes a snap fastening feature that enables the connection body formation to be reoriented with respect to a mount having the valve seat that receives the pin to control fluid flow.

Claims 17-20 (Canceled).

21. (Currently Amended) A purge solenoid valve assembly having a valve driven by a solenoid, the assembly comprising:

- a pin displacement calibration feature;

- a bobbin including a hollow core, and having first and second flanges;

- a wire wound around the bobbin between the first and second flanges;

- at least one terminal electrically connected to the wire;

- a pin extending the whole length through the hollow core from the first flange to the second flange;

- a resilient element biasing the pin;

- an overmolded cap defining a first cavity and a second cavity spaced from the first cavity, the first cavity continguously engaging the first and second flanges and generally encapsulating the bobbin and the wire, the second cavity housing the pin displacement calibration feature and the resilient element, the overmolded cap including a connector body formation partially encapsulating the at least one terminal, wherein the pin displacement calibration feature includes the resilient element biasing the pin with respect to the overmolded cap and a first locator adjusting the position of the resilient element with respect to the overmolded cap, the first locator

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threadably engaging the overmolded cap and being entirely disposed in the second cavity so that the resilient element engages a surface of the first locator; and

a valve seat including an aperture sized to receive an end portion of the pin so as to occlude the aperture, the pin being displaceable along a longitudinal axis with respect to the bobbin when an electric current flows through the wire.

22. (Previously Presented) The assembly according to claim 21, wherein the valve seat is disposed at an outlet of the assembly.

23. (Previously Presented) The assembly according to claim 22, further comprising:
an elastomeric member disposed on the pin, the elastomeric member effectively sealing the aperture of the valve seat to prohibit flow through the valve seat when the end portion is disposed in the aperture.

24. (Original) The assembly according to claim 23, wherein the elastomeric member comprises an O-ring.

Claims 25 and 26 (Canceled).